//Access 700™ TCPWI1/TCPIP1

Installation Instructions
CL33700 TCPWI1 & TCPIP1 Series
Cylindrical Lockset

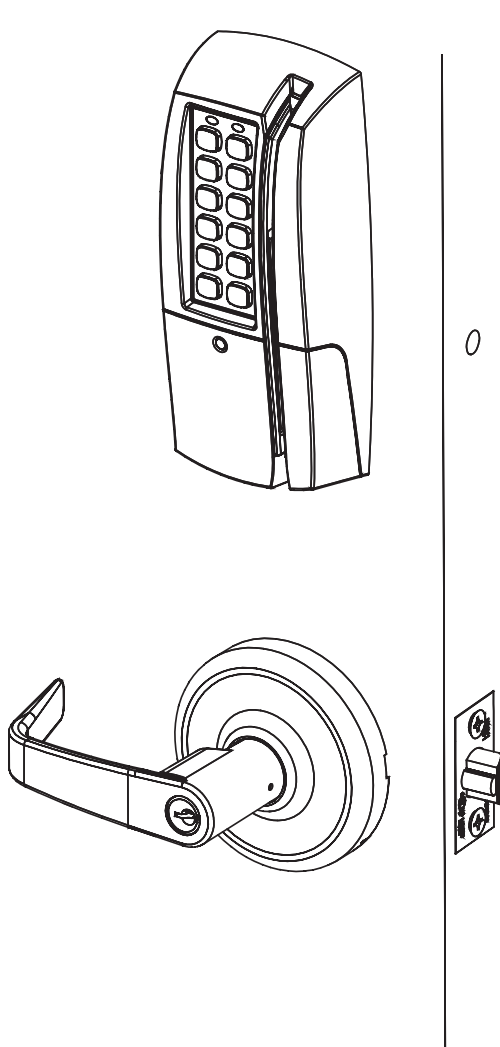**Corbin Russwin®**
ASSA ABLOY

FM323 3/14

Attention Installer

Please read these instructions carefully to prevent missing important steps.

Please Note: Improper installations may result in damage to the lock and void the factory warranty.

Important: The accuracy of the door preparation is critical for proper functioning and security of this lock.

Misalignment can cause premature wear and a lessening of security.

For Technical Assistance call Corbin Russwin at 1-800-810-WIRE (9473)

ASSA ABLOY, the global leader in door opening solutions

CL33700 PWI/PIP Series Cylindrical Lock

Table of Contents

1) Warning

Warning: Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses and can radiate radio frequency energy and if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that the interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

• Reorient or relocate the receiving antenna

• Increase the separation between the equipment and receiver

• Connect the equipment into an outlet on a circuit different from that to which the receiver is connected

• Consult the dealer or an experienced technician for help

The term "IC:" before the radio certification number only signifies that Industry Canada technical specifications were met. This Class B digital apparatus meets all requirements of the Canadian Interference Causing Equipment Regulations. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Cet appareillage numérique de la classe B répond à toutes les exigences de l'interférence canadienne causant des règlements d'équipement. L'opération est sujette aux deux conditions suivantes: (1) ce dispositif peut ne pas causer l'interférence nocive, et (2) ce dispositif doit accepter n'importe quelle interférence reçue, y compris l'interférence qui peut causer l'opération peu désirée.

To comply with "Fire Listed" doors, the batteries must be replaced with alkaline batteries only.

To avoid possible damage from electrostatic discharge (ESD), some basic precautions should be used when handling electronic components:

ATTENTION
OBSERVE PRECAUTIONS
FOR HANDLING
ELECTROSTATIC
SENSITIVE
DEVICES

• Minimize build-up of static by touching and/or maintaining contact with unpainted metal surfaces such as door hinges, latches, and mounting plates especially when mounting electronic components such as readers and controllers onto the door.

• Leave components (reader and controller) protected in their respective anti-static bags until ready for installation

• Do not touch pins, leads or solder connections on the circuit boards

ASSA ABLOY, the global leader in door opening solutions

2) General Description

Designed specifically for the campus market, the Corbin Russwin Access 700 series mortise Locks are available in WiFi (PWI) and PoE (PIP) configurations. Coupled with third party software the PWI and PIP offers a complete, integrated access control system. The Access 700 may be used for both indoor and outdoor applications (weather-protective gasket supplied).

The Access 700 PWI operates on six (6) "AA" alkaline batteries and may be used for both indoor and outdoor applications. A weather-protective gasket is provided for outdoor applications.

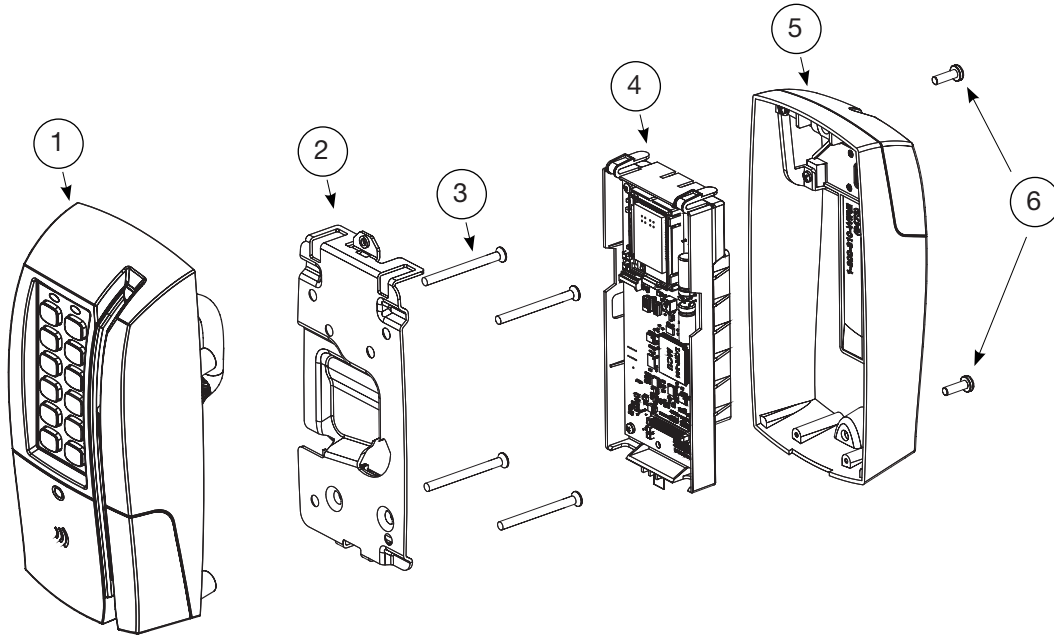## 3) Specifications / Features

Hardware Specifications

- Latch – Stainless steel, ½" (13mm) throw
        Optional: ¾" (19mm) throw deadlocking fire latch for pairs of doors

- Deadlocking latch prevents manipulation when door closed

- Door Thickness – 1-3/4" (44mm) to 2" (50mm) Standard
            Optional 2" (50mm) to 2-1/4" (57mm) optional

- Outside lever controlled by keypad/magstripe card, or key retracts latch

- Inside lever retracts latch

- BHMA Grade 1, UL Fire Listed*

Electrical Specifications:

- HID® multiCLASS SE™ technology offers support for the following credentials:
    - High Frequency (13.56 MHz):
        - HID iCLASS®
        - HID iCLASS SE® (SIO-enabled)
        - HID iCLASS® Seos™
        - HID MIFARE® SE
        - HID DESfire® EV1 SE
        - MIFARE Classic
        - DESfire EV1
        - FeliCa
    - Low Frequency (125 kHz):
        - HID Prox®
    - Magnetic Stripe
    - NFC-enabled Mobile Phones

*Any retrofit or other field modification to a fire rated opening can potentially impact the fire rating of the opening, and Corbin Russwin, Inc. makes no representations or warranties concerning what such impact may be in any specific situation. When retrofitting any portion of an existing fire rated opening, or specifying and installing a new fire-rated opening, please consult with a code specialist or local code official (Authority Having Jurisdiction) to ensure compliance with all applicable codes and ratings.
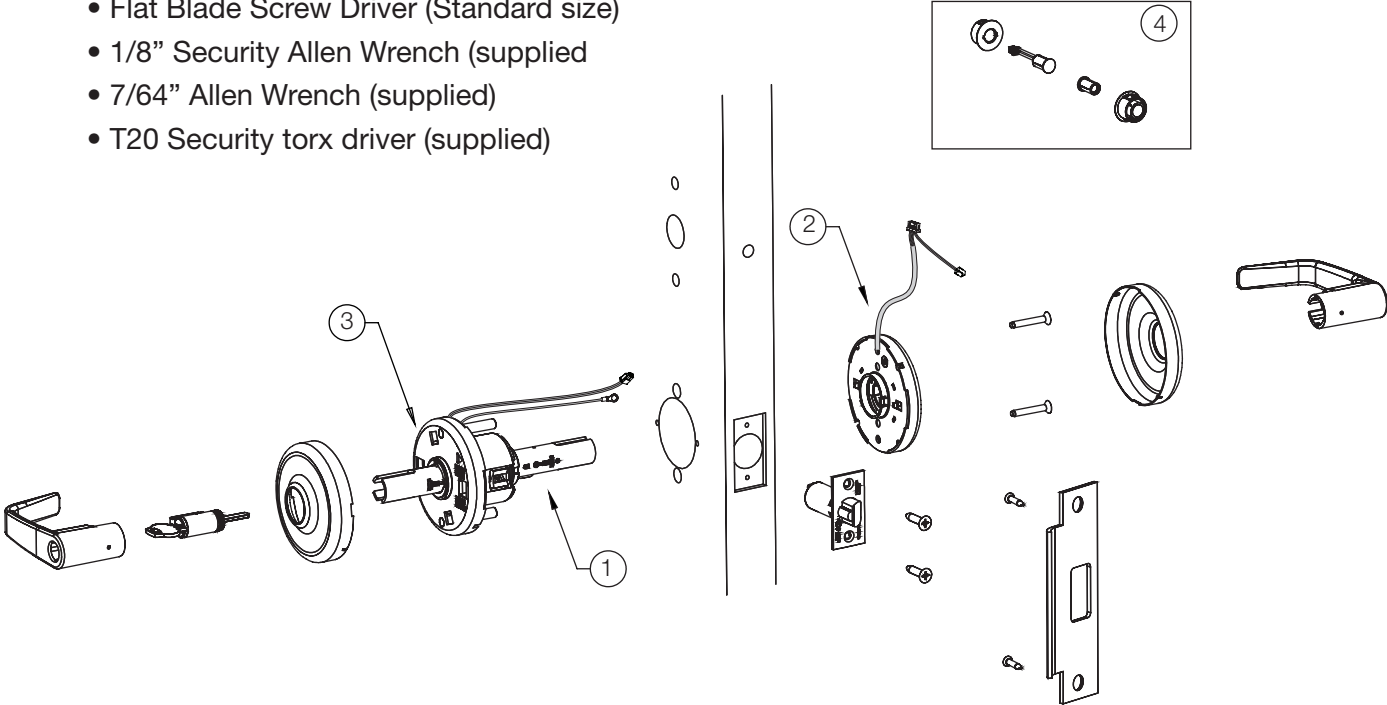
ASSA ABLOY, the global leader in door opening solutions

4) Product Illustration

ITEM No.	PART No.	DESCRIPTION
1	784F565 FIN	Outside Escutcheon Assembly, Mag Swipe
	784F575 FIN	Outside Escutcheon Assemby, Mag Swipe and Keypad
	784585 FIN	Outside Escutcheon Assemby, Mag Swipe, Keypad, HID 125kHz Prox, and 13.56 MHz Prox
	784595 FIN	Outside Escutcheon Assemby, Mag Swipe, HID 125kHz Prox, and 13.56 MHz Prox
	784F605 FIN	Outside Escutcheon Assemby, Mag Swipe, Keypad, HID 125kHz Prox, and 13.56 MHz Felica
	784F615 FIN	Outside Escutcheon Assemby, Mag Swipe, HID 125kHz Prox, and 13.56 MHz Felica
2	783F519	WiFi Controller Assembly
	783F509	PoE Controller Assembly
3	795F368	Screw Pack
4	782F788	Mounting Plate Assembly
5	784F515 FIN	Inside Escutcheon Assembly with Privacy Button

ASSA ABLOY, the global leader in door opening solutions

4) Product Illustration (Continued)

Tools Required:
- Phillips Screw Driver #2, #3
- Flat Blade Screw Driver (Standard size)
- 1/8" Security Allen Wrench (supplied
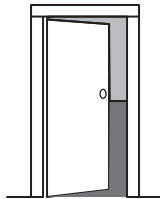- 7/64" Allen Wrench (supplied)
- T20 Security torx driver (supplied)

1	783F918	CL33134 Cylindrical lock with fixed core cylinder	1
	783F928	CL33134 Cylindrical lock with removable core cylinder	1
2	784F118	Inside Spring Cassette - REX (D134)	1
	784F128	Inside Spring Cassette - REX (D214)	1
3	682F268	Outside Spring Cassette (1-3/4" - 2" Door)	1
	682F278	Outside Spring Cassette (2" - 2-1/4" Door)	1
4	783F619	DPS (Door Position Switch) Kit	1

For parts not listed, refer to CL3300 Parts and Service Manual

ASSA ABLOY, the global leader in door opening solutions

Corbin Russwin
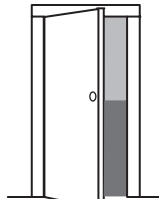
ASSA ABLOY

5) Installation Instructions

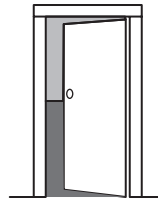1. Verify Hand and Bevel of door:

   Illustrations shown are as viewed from the outside or secure side of opening.
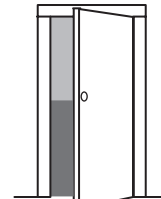
   Left Hand
   Hinges Left.
   Open Inward.
   "LH"

   Left Hand
   Reverse Bevel
   Hinges Left.
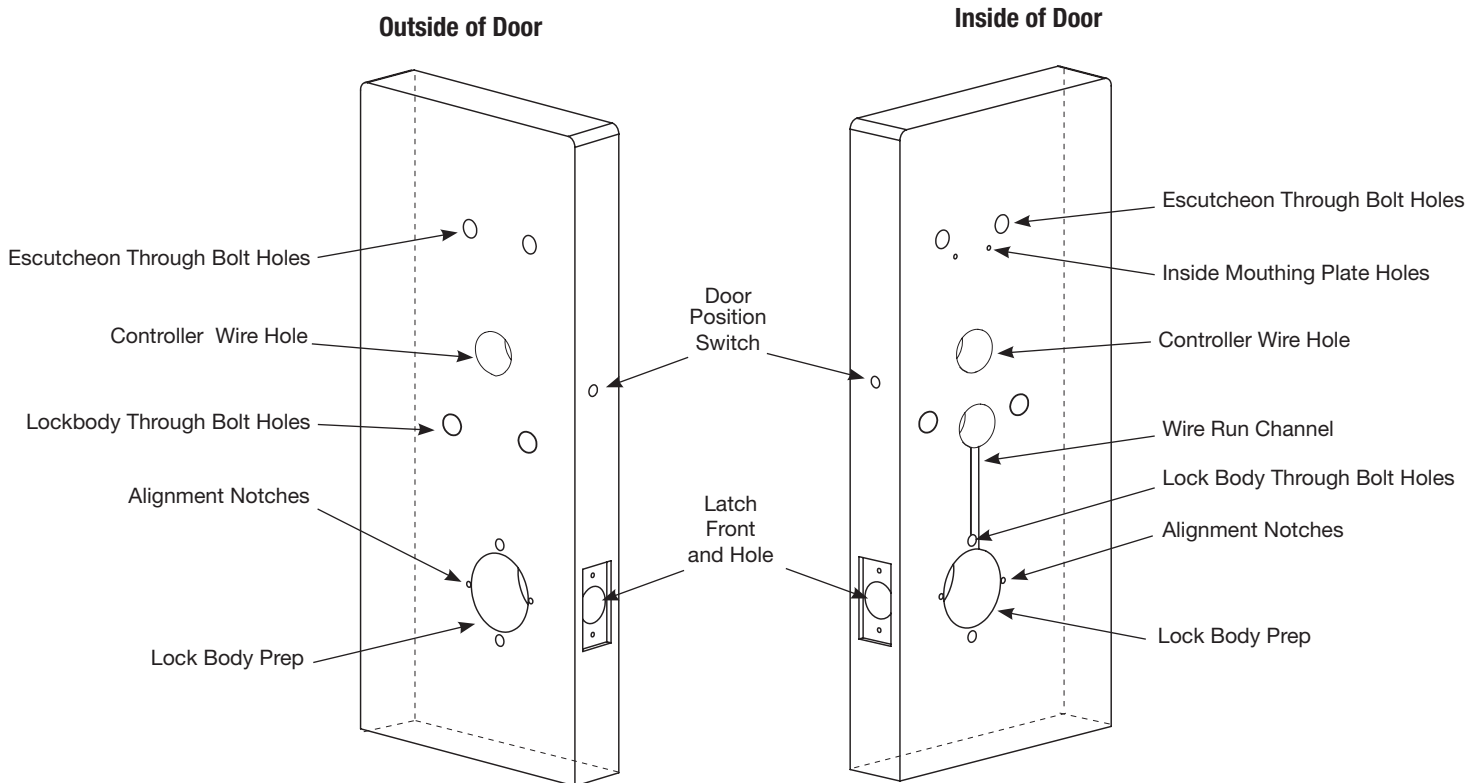   Open Outward
   "LHRB"

   Right Hand
   Hinges Right.
   Open Inward.
   "RH"

   Right Hand
   Reverse Bevel
   Hinges Right.
   Open Outward
   "RHRB"

2. Prep door according to supplied Door Marker (FM302). For door manufacturer templates visit **www.corbinrusswin.com** and reference Template # T31077.

Outside of Door

Inside of Door

Escutcheon Through Bolt Holes

Controller Wire Hole

Lockbody Through Bolt Holes

Alignment Notches

Lock Body Prep

Door
Position
Switch

Latch
Front
and Hole

Escutcheon Through Bolt Holes

Inside Mouthing Plate Holes

Controller Wire Hole

Wire Run Channel

Lock Body Through Bolt Holes

Alignment Notches

Lock Body Prep

Wood Door Preparation

ASSA ABLOY, the global leader in door opening solutions

5) Installation Instructions (Continued)

3. Install Latch Bolt:

    Install using two #8 x 3/4" combination screws (Fig. 3).

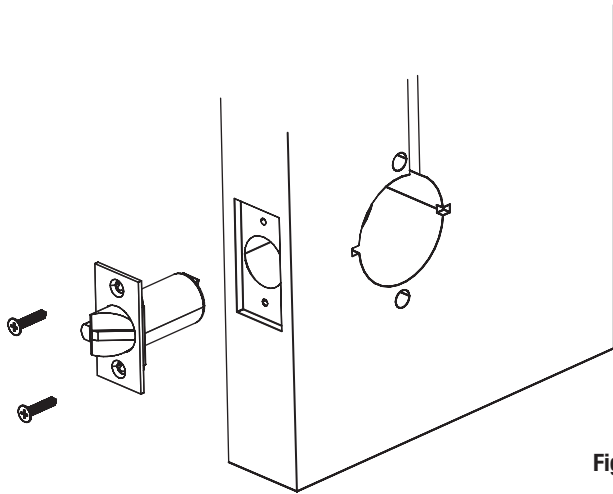   Note: Make sure the beveled bolt is facing the strike.

Fig. 3

4. Install Strike:

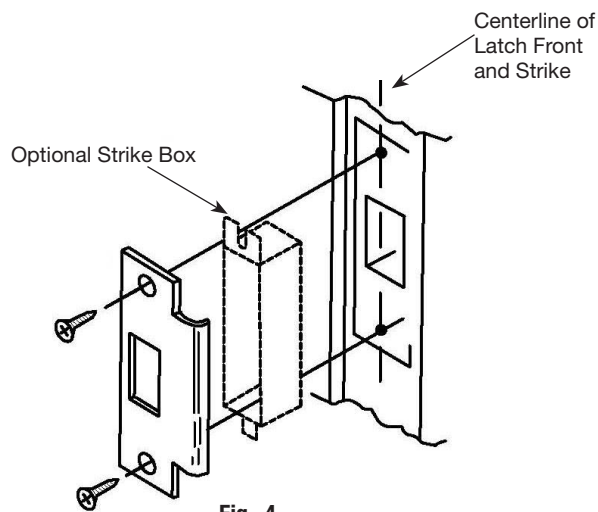   Install using two #12 x 1" combination screws (Fig. 4).

Centerline of
Latch Front
and Strike

Optional Strike Box

Fig. 4

ASSA ABLOY, the global leader in door opening solutions

5) Installation Instructions (Continued)

5. Install Door Status Switch supplied with product:

    a. Drill 3/4" hole in frame for switch (Fig. 5a and 5b).

    b. Snap the sensor in place in the frame.

    c. Insert connector end of DPS harness through raceway on latch edge of door (Fig. 5c).

      Note: Use collar in METAL door only.

    d. Push door status switch firmly into place by hand.

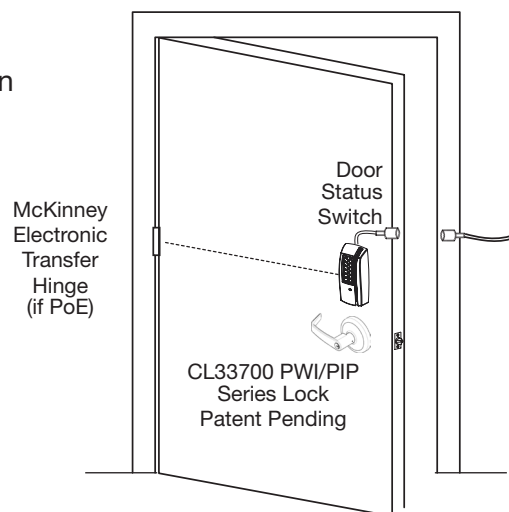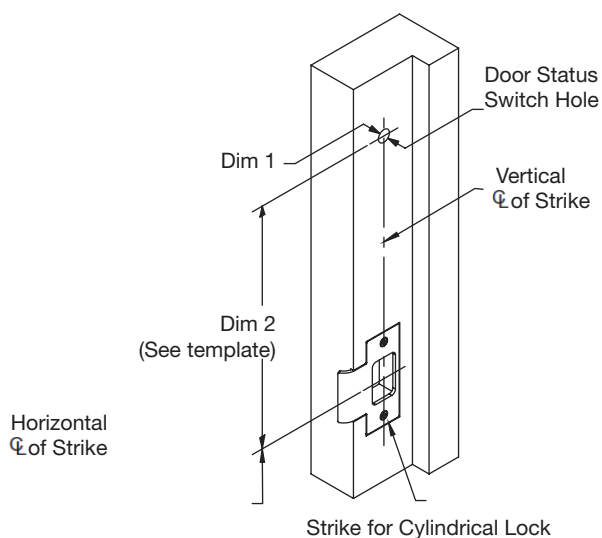   **Important**: DO NOT TAP SWITCH WITH ANY TOOL.

Door Status Switch

McKinney Electronic Transfer Hinge (if PoE)

Fig. 5a

CL33700 PWI/PIP Series Lock Patent Pending

Door Status Switch Hole

Dim 1

Vertical ₵ of Strike

Dim 2 (See template)

Horizontal ₵ of Strike

Strike for Cylindrical Lock

Fig. 5b

Collar is used only with **metal** doors.

Door Status Switch

Inside of Door

Fig. 5c

	Wood Frame	Metal Frame
Dim 1	3/8" ⌀	3/4" ⌀

ASSA ABLOY, the global leader in door opening solutions
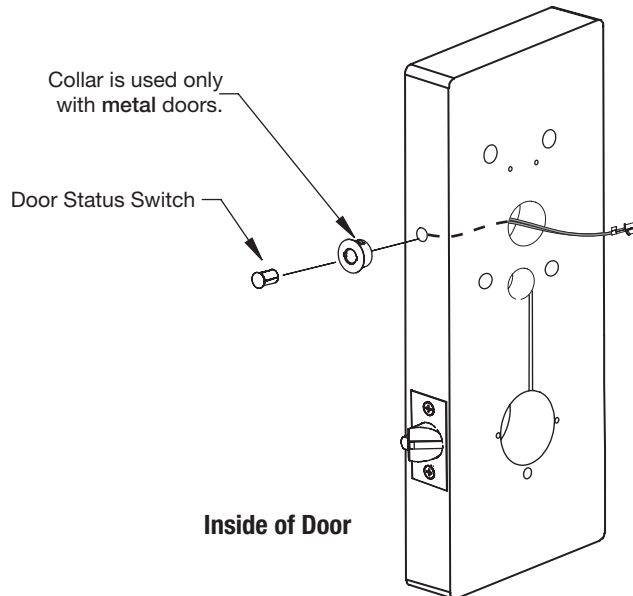
Corbin Russwin®

ASSA ABLOY

5) Installation Instructions (Continued)

6.   Install Lock:

a. Feed lock body and wires through 2-1/8" diameter hole from outside of door (Fig. 6a).

b. Be sure latch engages lock body (Fig. 6b).

IMPORTANT: Door must remain open during installation. Use door stop.
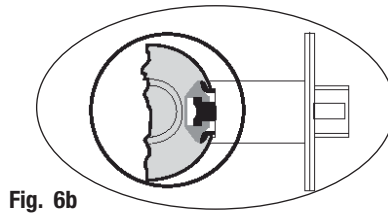
Door Status Switch

Fig. 6b

7.   Install Spring Cassette and Route Wires:

a. Plug harness into wire from lock body (Fig. 7a, b).

b. Route lock body harness and ground wire (Fig. 7b Detail).

c. Install inside spring cassette, and tighten using two #12-24 screws provided (Fig. 7a).

d. Run wires through slots in edges of spring cassette (Fig. 7b) Note: **Do not run wires through center hole and be careful not to pinch wires under spring cassette.**

There are DOOR EDGE markings on the cassette for orientation.

Wire Routing: This image shows wood door prep, with wire run channel in inside face of door.

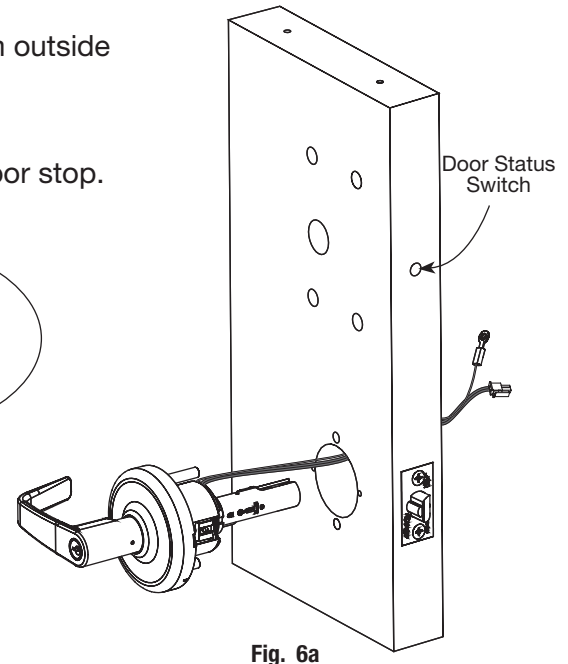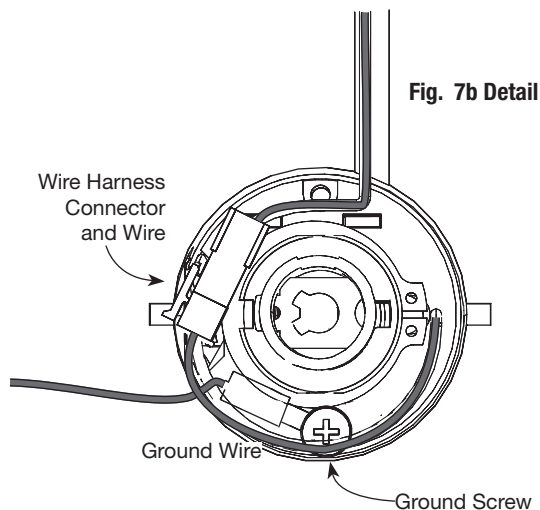Alternate construction would be a raceway through the door core.
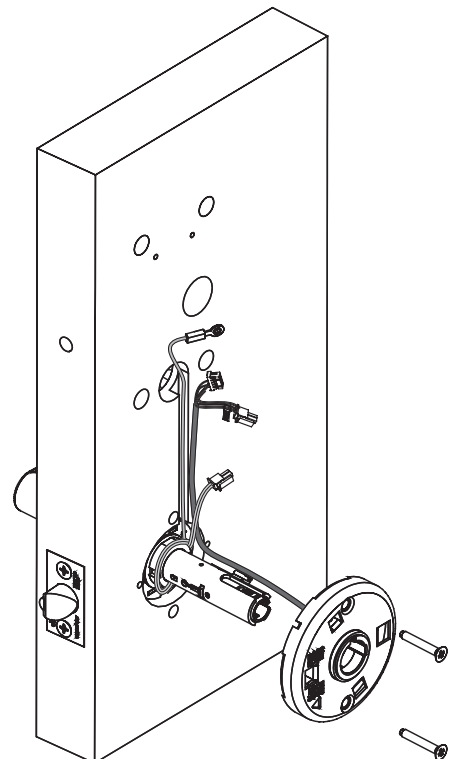
Fig. 6a

Fig. 7b Detail

Wire Harness Connector and Wire

Ground Wire

Ground Screw

Fig. 7a
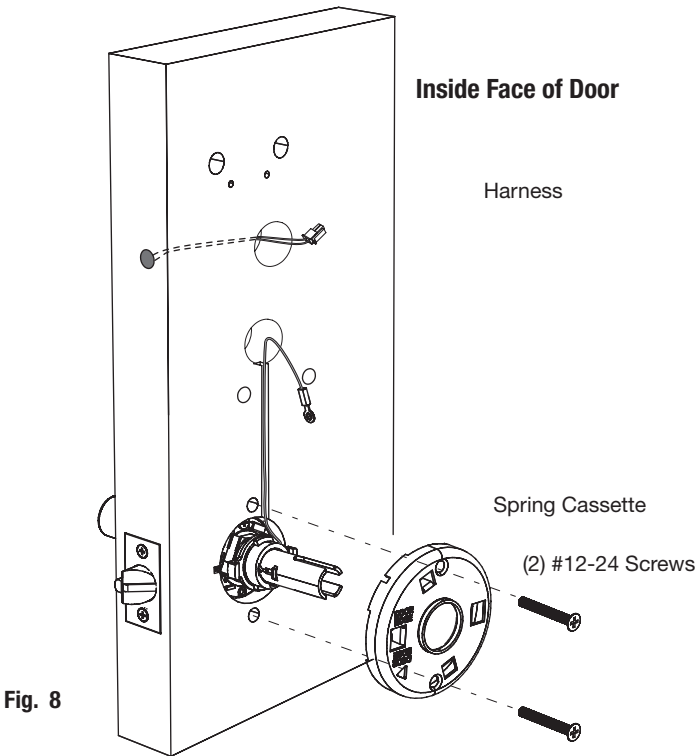
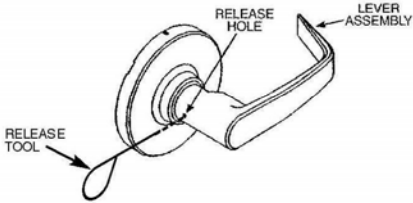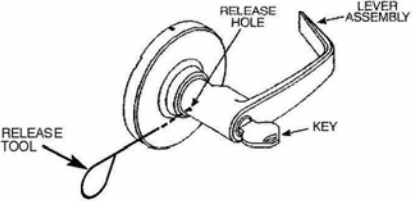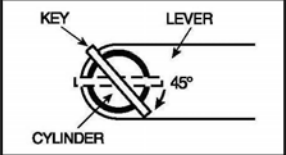ASSA ABLOY, the global leader in door opening solutions

5) Installation Instructions (Continued)

8. Connect cables:

    Connectors go on one way. Each connector is mated to prevent connecting incorrectly.

    a. Connect 2-pin wire to Door Status Switch.

    b. Connect 4-pin connector from harness into wire from lock body.

    c. Install the rose over the inside cassette.

Inside Face of Door

Harness

Spring Cassette

(2) #12-24 Screws

Fig. 8

Inside Rose

9. Installation and Removal of Lever and Standard Cylinders:

LEVER STYLE	REMOVAL	INSTALL
PLAIN LEVER RELEASE HOLE LEVER ASSEMBLY RELEASE TOOL	**PUSH RELEASE TOOL** Push release tool Into release hole, Remove lever	**SLIDE LEVER OVER** Slide lever over Lever catch Pull on lever. *Make sure lever will not pull off*
CYLINDER LEVER RELEASE HOLE LEVER ASSEMBLY RELEASE TOOL KEY	**ROTATE KEY** Rotate key 45° clockwise (from shed position), Push in release tool into Release hole, remove lever KEY LEVER 45° CYLINDER	**INSERT KEY AND ROTATE** Insert key and rotate 45° (from Shed position), slide lever on *Make sure lever will not pull off*

ASSA ABLOY, the global leader in door opening solutions

Corbin Russwin
ASSA ABLOY

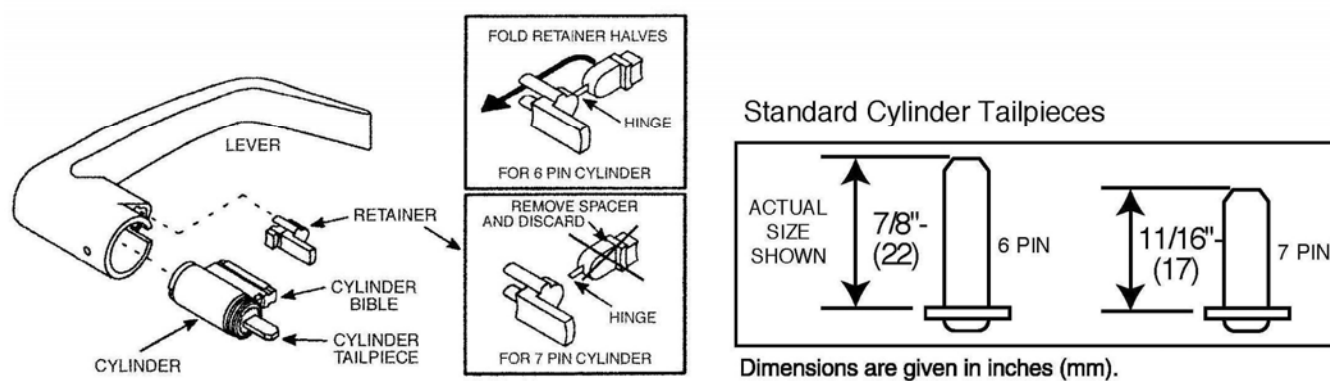## 5) Installation Instructions (Continued)

9. Installation and Removal of Lever and Standard Cylinders (continued):

Standard Cylinder Installation

Make sure cylinder tailpiece is aligned in same direction as cylinder bible.
Slide cylinder all the way into the lever.

For 6-pin cylinder: Fold retainer at hinge and press fit retainer halves together as shown.

For 7-pin cylinder: Break retrainer at hinge and discard spacer section. Also remove black cylinder spacer from inside of chassis follback for clearance.

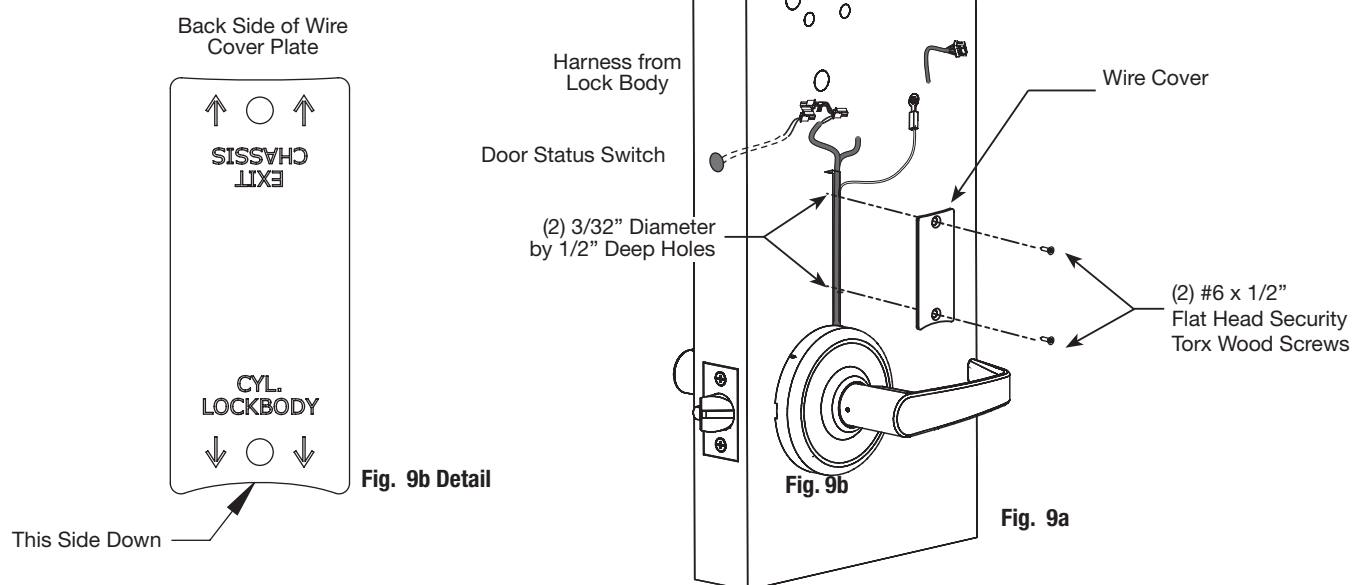
Dimensions are given in inches (mm).

10. Install Wire Cover Plate:

Install the wire cover plate to the inside of the door above the lock body (Fig 9a).

Be careful not to pinch the wires when securing the cover plate.

Note: Wire cover is only required for wood doors with the wire run channel on inside face of door.

Inside Face of Door

Back Side of Wire Cover Plate

EXIT CHASSIS

CYL. LOCKBODY

This Side Down

Fig. 9b Detail

Harness from Lock Body

Door Status Switch

(2) 3/32" Diameter by 1/2" Deep Holes

Fig. 9b

Wire Cover

(2) #6 x 1/2" Flat Head Security Torx Wood Screws

Fig. 9a

ASSA ABLOY, the global leader in door opening solutions

5) Installation Instructions (Continued)

11.   Install (optional) Weatherseal Gasket:

For non-fire rated door applications, an optional gasket may be used as a weatherseal between the escutcheon and the outside door surface.

Peel off the adhesive backing on the gasket and install the gasket along the edge of the outside escutcheon assembly (Fig. 10).
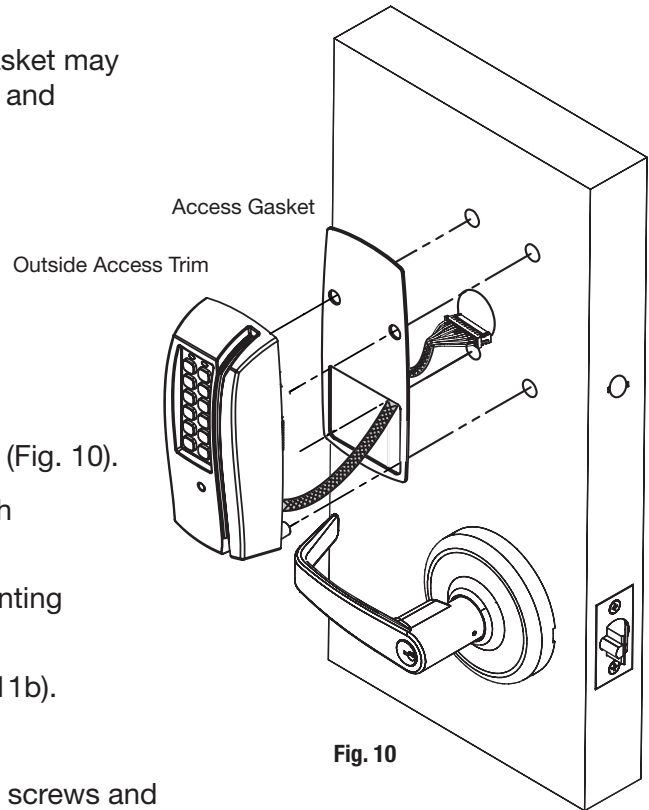
12.   Install Outside Escutcheon

a. Insert the mounting posts through holes as shown (Fig. 10).

b. On the inside of the door, align mounting plate with indicated holes (Fig. 11a).

c. Feed reader cable through central opening in mounting plate (Fig. 11a).

d. Lockbody cable feeds from bottom (Fig. 11a and 11b).

e. Make sure they are positioned upright (Fig. 11a).

f. Insert other three #8-32 x 1-7/8" flat head machine screws and tighten, fastening the outside escutcheon to the door (Fig. 11a).
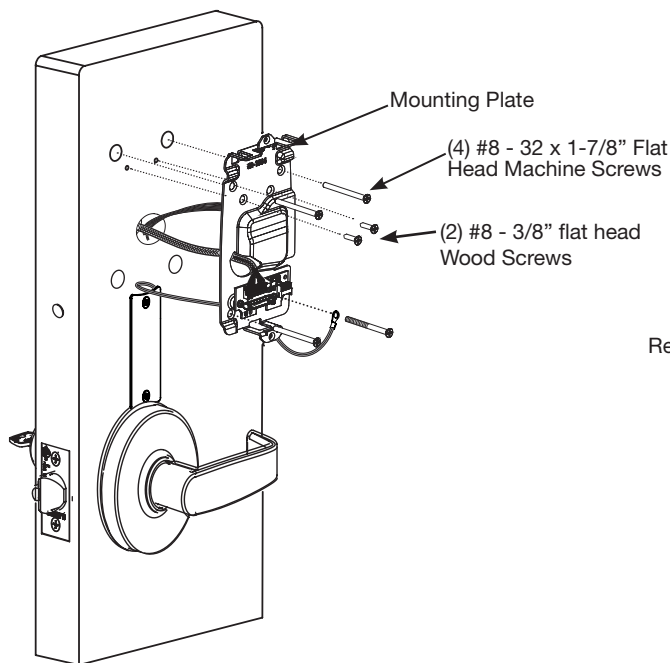
Access Gasket

Outside Access Trim

Fig. 10

Mounting Plate

(4) #8 - 32 x 1-7/8" Flat Head Machine Screws

(2) #8 - 3/8" flat head Wood Screws

Fig. 11a

Mounting Plate

TOP
52-1564

Inside Face of Door

Reader Cable

DPS

Position ground ring terminal upright, then tighten screw.

Fig. 11b

Lock body cable

ASSA ABLOY, the global leader in door opening solutions
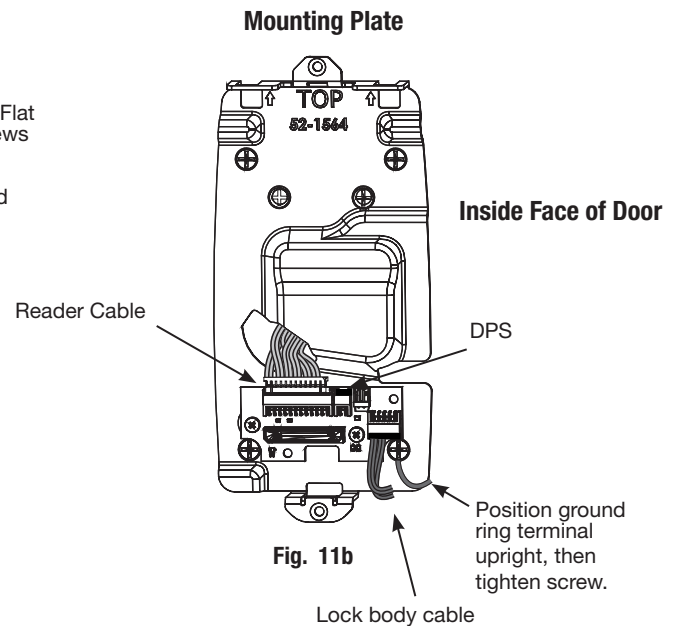
Corbin Russwin®

ASSA ABLOY

5) Installation Instructions (Continued)

11.   Installation of Connectors

CAUTION - Do not touch or allow debris to enter connector contacts.

Secure the following connectors to their respective terminals (Fig. 12a, b):

a. Secure the 2-pin DPS connector.

b. Secure the 10-pin lock body assembly connector.

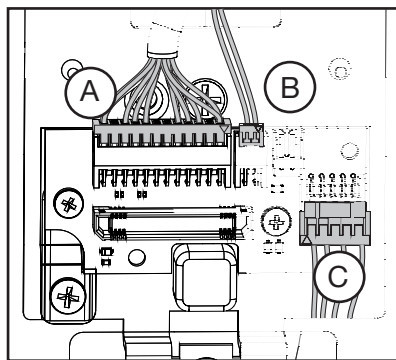*NOTE: Optional 2-pin external 9-24VDC power connector.

Reader (24-pin)   DPS (4-pin)   9-24VDC Power*

Board-to-Board Connector

Fig. 12a

Lock Body (10-pin)

Fig. 12b

Wire Positioning:

Please follow these steps prior to installing inside escutcheon to prevent any damage caused by pinching wires:

c. Tuck excess cable into wire hole on inside of door.

d. Finish securing mounting plate and reader to door by fully tightening through-bolts on inside of door (Fig. 10E).

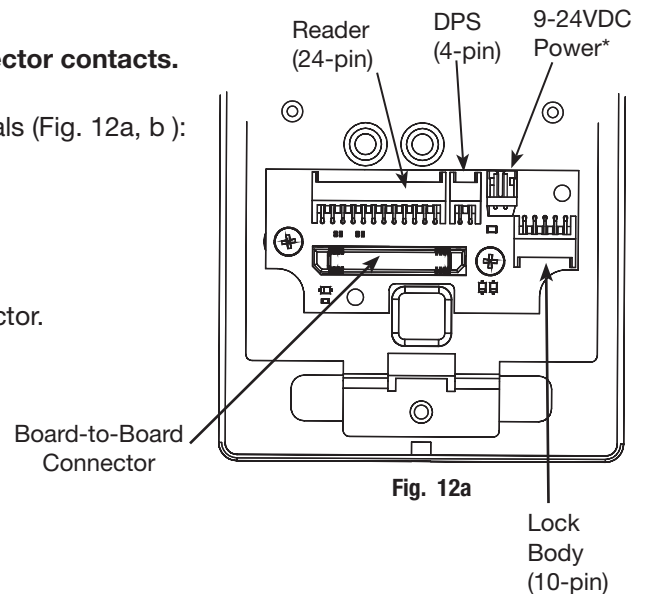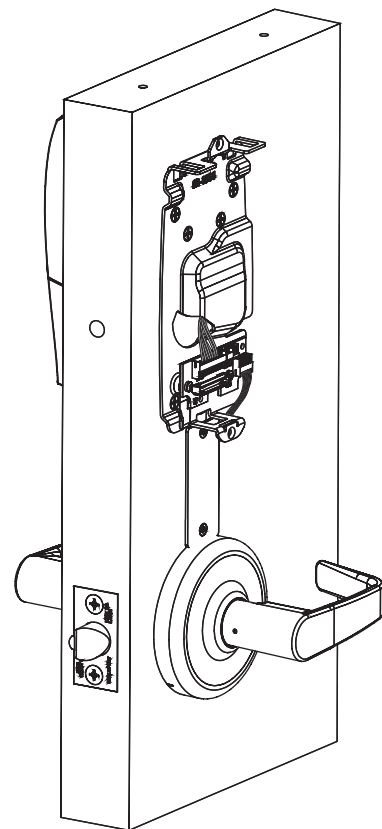e. Secure the 24-pin card reader connector.

ASSA ABLOY, the global leader in door opening solutions

5) Installation Instructions (Continued)

a. Insert bottom tab of controller into slot on mounting plate (Fig. 12a, b).

b. Looking down from top of controller, ensure proper alignment of board-to-board connectors (Fig. 12b) while pivoting controller toward door until two tabs on top snap securely into place on mounting plate (Fig. 12b).

CAUTION: To avoid possible damage to board-to-board connectors, care should be taken when securing controller to mounting plate. If there is resistance when securing, detach controller to determine cause before re-attaching controller.
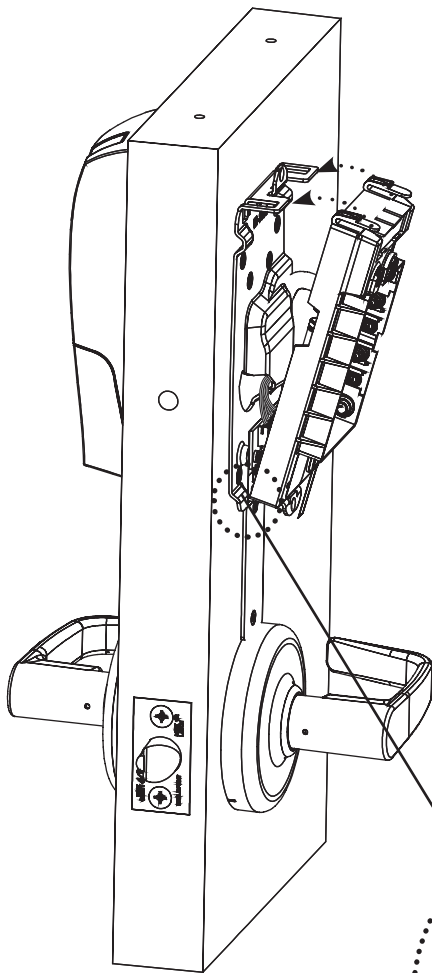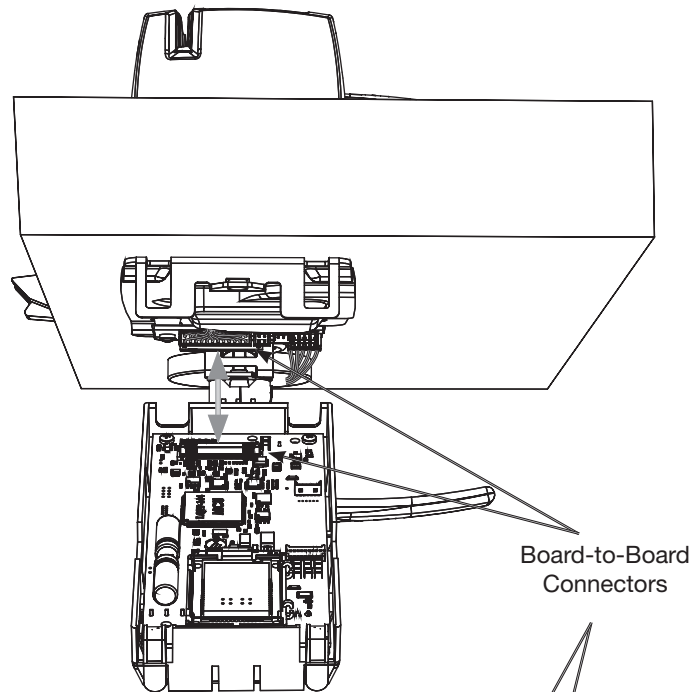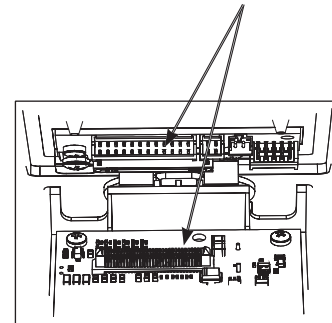
Board-to-Board Connectors

Fig. 12b

Fig. 12b Detail

Fig. 12a

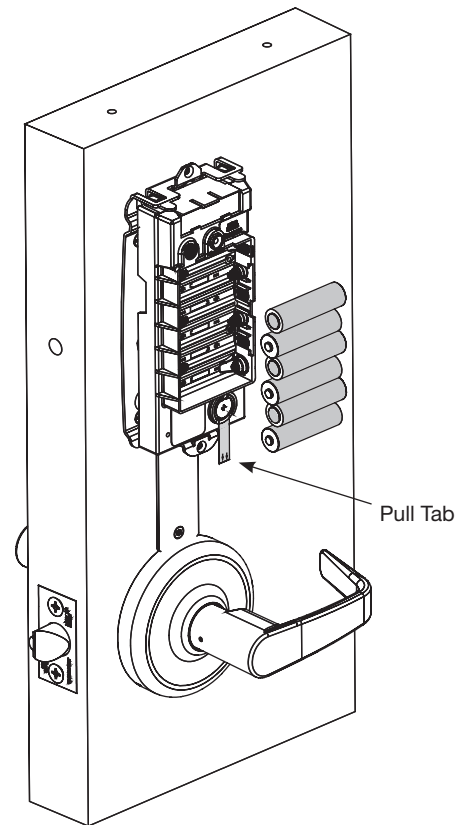ASSA ABLOY, the global leader in door opening solutions

5) Installation Instructions (Continued)

13.   Battery Installation

Before installing batteries for the first time:

Remove **pull tab** from its position beneath the coin cell by pulling on tab in direction of arrows printed on tab (Fig. 13).

a. Place (6) "AA" alkaline batteries in the compartment, being careful to align polarity properly.

b. After batteries are installed, there is a slight delay; then an audible "beep" will sound and the lock motor will cycle.

For battery replacement:

When replacing the (6) "AA" alkaline batteries in the compartment, please note batteries must be replaced within five (5) minutes to prevent the internal clock from becoming inaccurate.

Pull Tab

Fig. 13

14.   Inside Cover Installation

a. Secure cover with (2) security screws utilizing security allen wrench (provided).

Inside Cover

Security Allen Screw

Fig. 14

ASSA ABLOY, the global leader in door opening solutions

Important Note: Wiring Installation

If you are installing PIP (PoE) please go to Page 17 PIP Installation Wiring

If you are installing PWI please go to Page 20 Operational Check

Continue With Installation...

ASSA ABLOY, the global leader in door opening solutions

Corbin Russwin

ASSA ABLOY

6) PIP (PoE) Installation Wiring

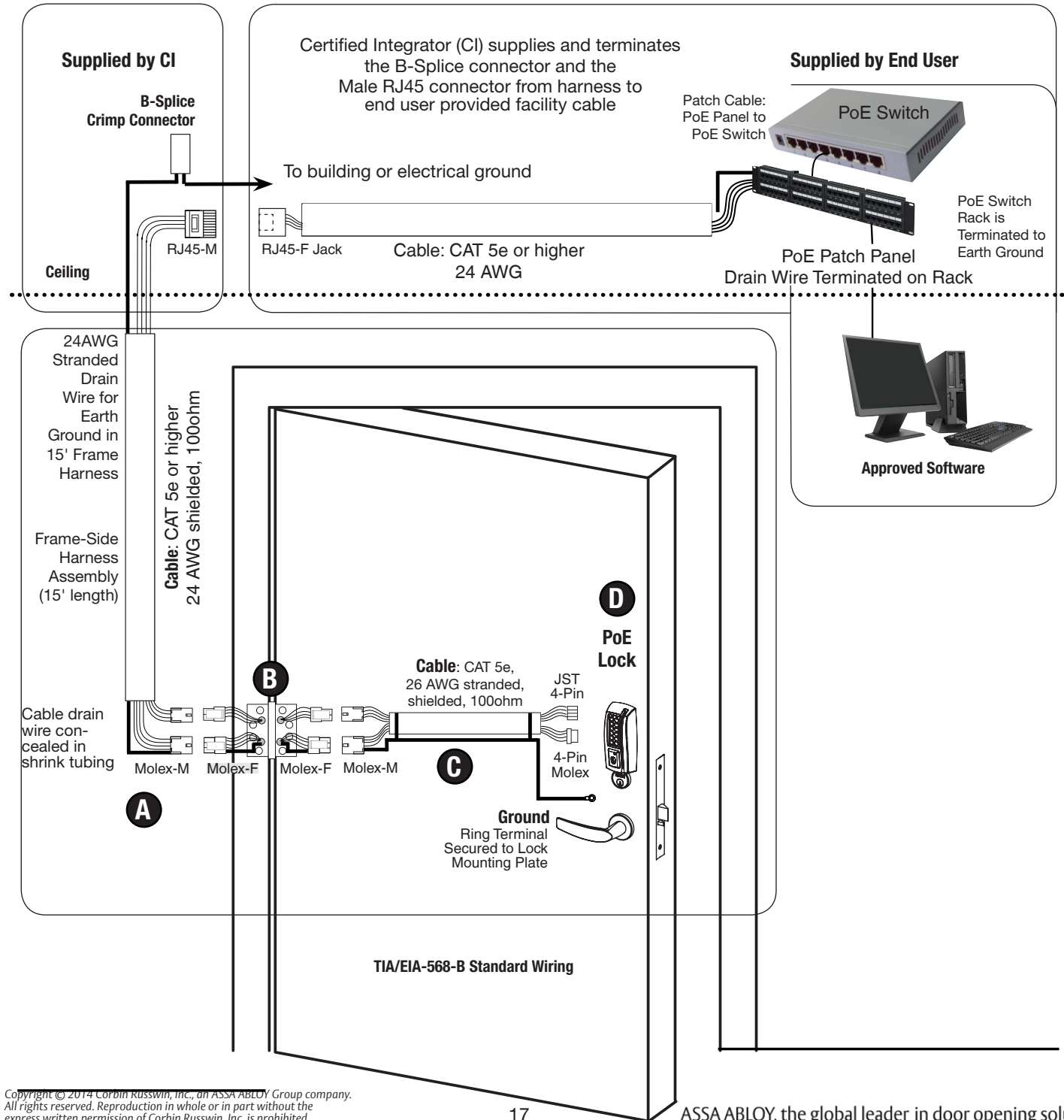17.   PIP (PoE) Installation Wiring:

A PoE Frame harness assembly
(From McKinney)

B PoE data hinge (Patent Pending)
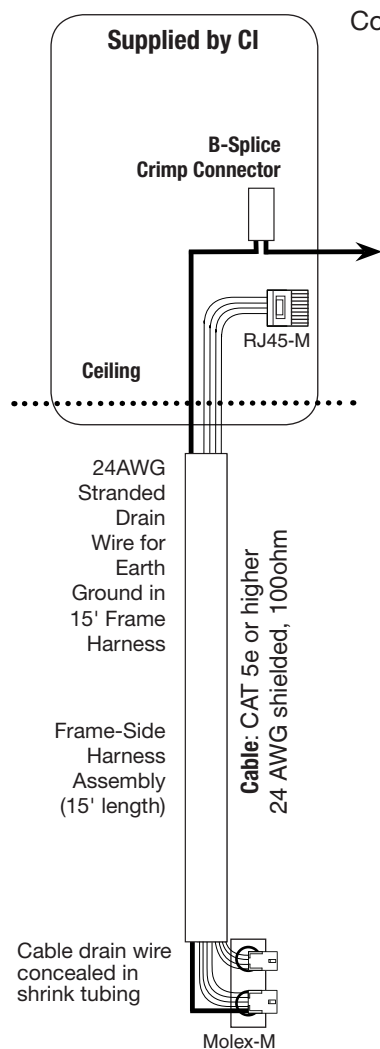(From McKinney)

C PoE Door harness*
(From McKinney)

D Access 700 PIP (PoE Lock)
* Order of installation may vary.
Refer to appropriate sections for instructions.

Supplied by CI

B-Splice Crimp Connector

Certified Integrator (CI) supplies and terminates
the B-Splice connector and the
Male RJ45 connector from harness to
end user provided facility cable

Supplied by End User

Patch Cable:
PoE Panel to
PoE Switch

PoE Switch

To building or electrical ground

RJ45-M

RJ45-F Jack

Cable: CAT 5e or higher
24 AWG

PoE Switch
Rack is
Terminated to
Earth Ground

PoE Patch Panel
Drain Wire Terminated on Rack

Ceiling

24AWG
Stranded
Drain
Wire for
Earth
Ground in
15' Frame
Harness

Frame-Side
Harness
Assembly
(15' length)

Cable: CAT 5e or higher
24 AWG shielded, 100ohm

Cable drain
wire con-
cealed in
shrink tubing

Molex-M   Molex-F   Molex-F   Molex-M

A

B

Cable: CAT 5e,
26 AWG stranded,
shielded, 100ohm

JST
4-Pin

C

4-Pin
Molex

D

PoE Lock

Approved Software

Ground
Ring Terminal
Secured to Lock
Mounting Plate

TIA/EIA-568-B Standard Wiring

ASSA ABLOY, the global leader in door opening solutions

Corbin Russwin

ASSA ABLOY

6) PIP (PoE) Installation Wiring (Continued)

(A) Frame Harness Installation

Supplied by CI

B-Splice Crimp Connector

RJ45-M

Ceiling

24AWG Stranded Drain Wire for Earth Ground in 15' Frame Harness

Frame-Side Harness Assembly (15' length)

Cable: CAT 5e or higher 24 AWG shielded, 100ohm

Cable drain wire concealed in shrink tubing

Molex-M

(B)
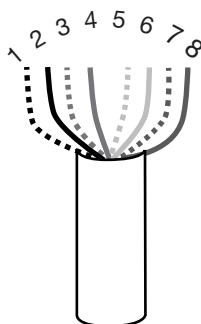
Components and wire harness supplied by McKinney: Suggested installation.

Cut end / ceiling-side PoE harness:

TIA/EIB-568-B Standard Wiring

1 2 3 4 5 6 7 8

Pair Number		Wire	PIN
1	White/Blue	White/Blue	5
		Blue	4
2	White/Orange	White/Orange	1
		Orange	2
3	White/Green	White/Green	3
		Green	6
4	White/Brown	White/Brown	7
		Brown	8

Do not confuse pair numbers with pin numbers. A pair number is used for reference only (eg: 10BaseT Ethernet uses pairs 2 & 3). The pin numbers indicate actual physical locations on the plug and jack.

Hinge side of PoE harness:
1. Feed cut end of harness into hole on hinge-side through single access hole.
2. Push one of the connectors back through hole and feed into separate access hole.

Each of the hinge-side harness connectors should end up threaded through a different access hole and matched to the same size pin connector from the door harness:

- 4-pin male Molex connector.
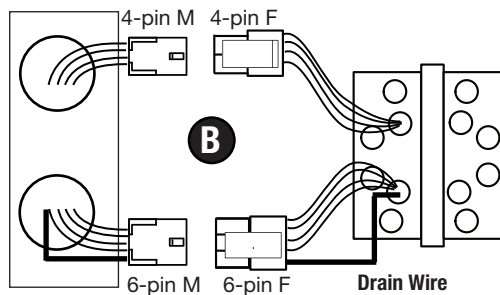- 6-pin male Molex connector with ground wire.

Notes:

- Connectors only go on one way. They cannot be plugged to incorrect position.
- Do not force and do not offset connectors.
- Be sure they are completely seated (flush).

Hinge-side harness connectors:
- 4-pin male molex connector
- 6-pin male molex connector with ground wire

Lock-side harness connectors:
- Ring terminal
- (2) 4-pin connectors

4-pin M   4-pin F

(B)

6-pin M   6-pin F   **Drain Wire**

Frame   **PoE Hinge (Patent Pending)**

ASSA ABLOY, the global leader in door opening solutions

6) PIP (PoE) Installation Wiring (Continued)

C Hinge Installation

Order of installation may vary. Refer to appropriate sections for instructions.

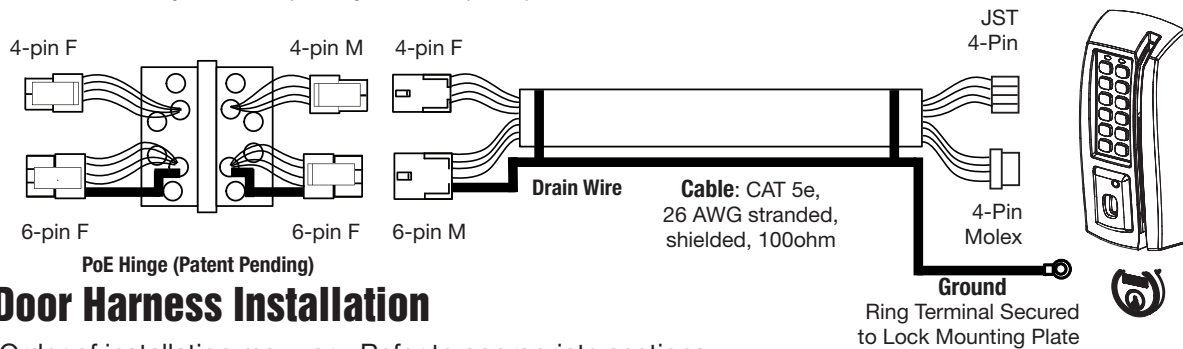Hinge-side harness connectors:

- 4-pin male Molex connector
- 6-pin male Molex connector with ground wire

Lock-side harness connectors:

- Ring terminal
- (2) 4-pin connectors:
    - 4-pin Molex connector
    - 4-pin connector

Notes:

- Connectors go on only one way. They cannot be plugged to incorrect position.
- Do not force and do not offset connectors.
- Be sure they are completely seated (flush).

4-pin F   4-pin M   4-pin F

6-pin F   6-pin F   6-pin M

PoE Hinge (Patent Pending)

Drain Wire   **Cable**: CAT 5e, 26 AWG stranded, shielded, 100ohm

JST 4-Pin

4-Pin Molex

Ground Ring Terminal Secured to Lock Mounting Plate

D Door Harness Installation

Order of installation may vary. Refer to appropriate sections for instructions.

1. Prop door open.
2. Tape the two lock-side 4-pin connectors to the ring terminal.
3. Using the ring terminal, carefully fish the assembly through the door channel to the lock.
4. Remove tape from ring terminal and door harness connectors.

    Hinge-side harness connectors:
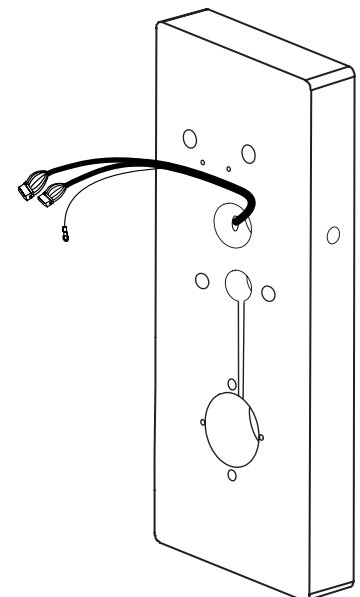
    - 4-pin male Molex connector
    - 6-pin male Molex connector with ground wire

    Lock-side harness connectors:

    - Ring terminal
    - (2) 4-pin connectors:
        - 4-pin Molex connector
        - 4-pin connector

Notes:

- Connectors go on only one way. They cannot be plugged to incorrect position.
- Do not force and do not offset connectors.
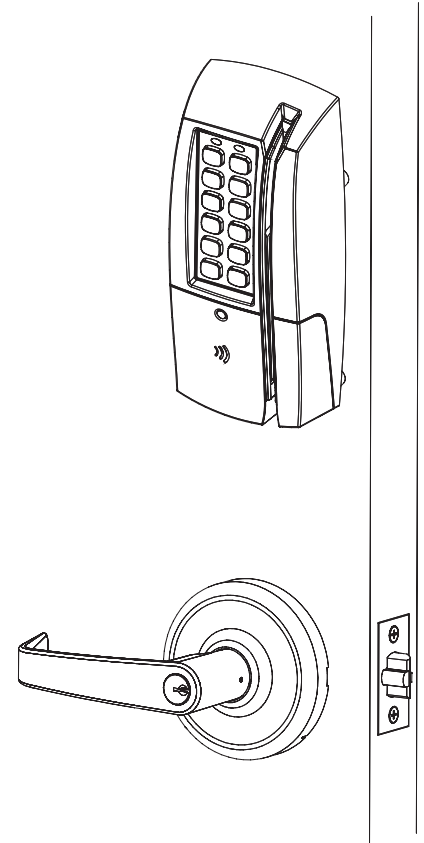- Be sure they are completely seated (flush).

ASSA ABLOY, the global leader in door opening solutions

6) Operationial Check

IMPORTANT: Be sure to test functions prior to closing door.

In all cases, perform the following checks:

1. Ensure that inside lever retracts latch (and deadbolt for deadbolt functions).

    • For units with cylinders, the following checks apply:

    Insert key into cylinder and rotate

    a. There should be no friction against lock case, wire harness, or any other obstructions. If friction or binding occurs, read-just cylinder and wiring harness to eliminate issues.

    b. The key should retract the latch and the key should rotate freely.

    c. The key should extend and retract the deadbolt.

    • For units without a keypad, add card using LCT software and test.

    • For units with a keypad, add pin and card using LCT software and test.

2. LED signalling:

    • After using a valid credential, a green flash followed by three fast amber flashes indicates a low power condition.

    Check the input voltage.

    If the input voltage is low, disconnect the lock from the power source and check the power source voltage. If the power source voltage is correct, inspect the lock wiring for a possible short.

    • If the lock loses power, it will flash rapid amber for approximately one minute.

    After that, the lock will no longer be functional.

3. When you have completed the tests, close the door to ensure latchbolt and deadbolt fully extend into strike plate without binding.

ASSA ABLOY, the global leader in door opening solutions